

Hurricane Katrina

August 29, 2005

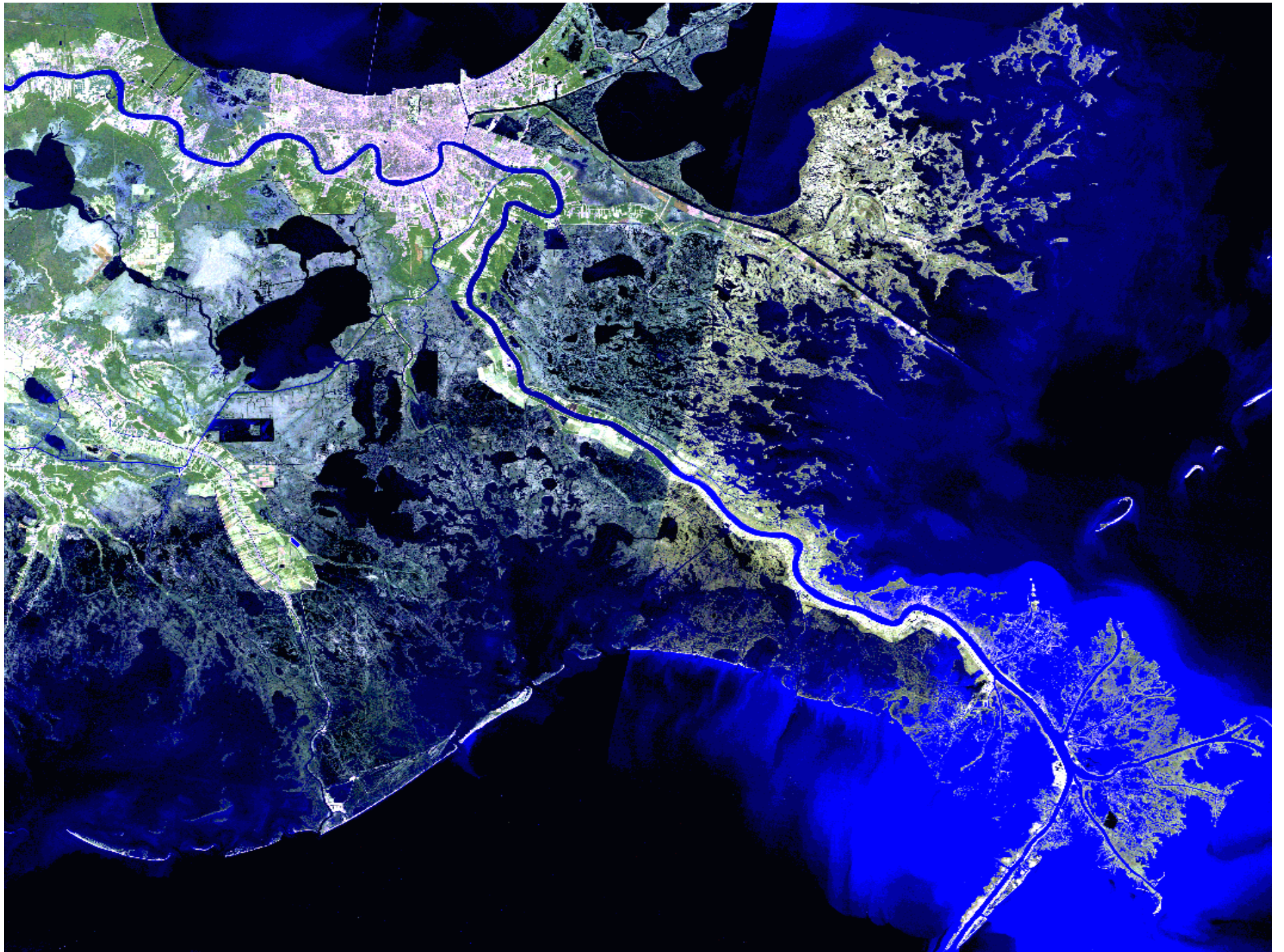
Dr. G. Wayne Clough
Leadership Class
January 23, 2006



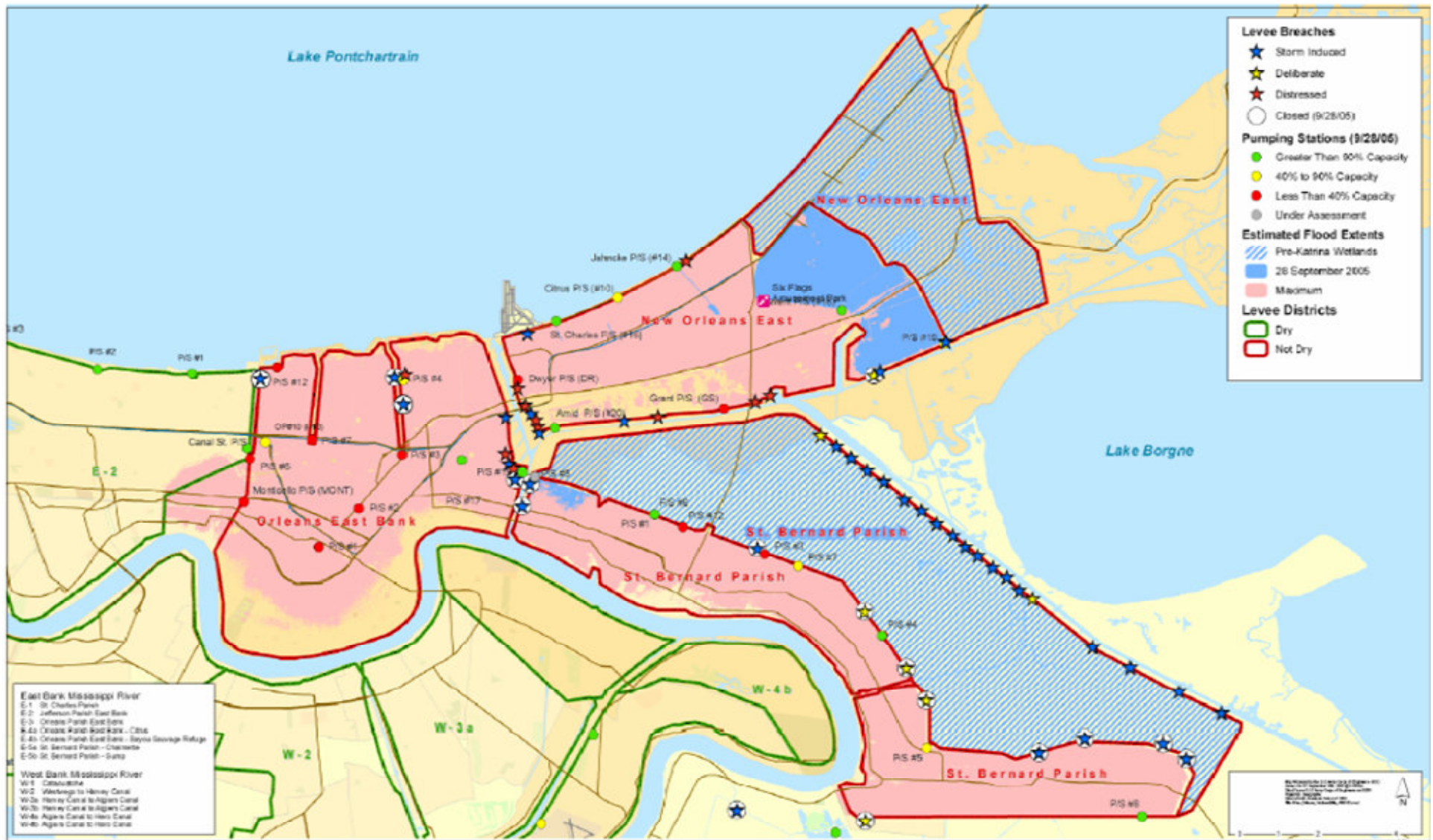
Katrina's path



Source: <http://flhurricane.com/googlemap>



New Orleans with flooded areas shaded



17th Street Canal



Breach: 17th Street levee



Breach: 17th Street levee



Closing the breach with sandbags



Source: http://www.usace.army.mil/katrina-images/NO-A-09-04-05_0072.jpg

The breach repaired



Breach: Inner Harbor Navigation Canal

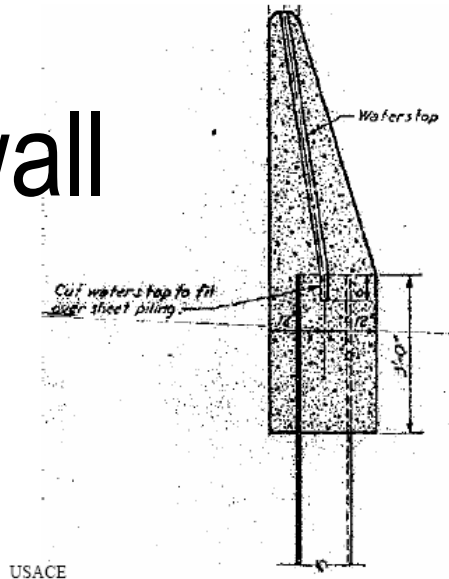


After the water is pumped out: A barge rests among the foundations on which houses used to stand. The remnants of the I-wall describe an arc at the center.



Photograph by Les Harder [oct.14, 2005]

I-wall

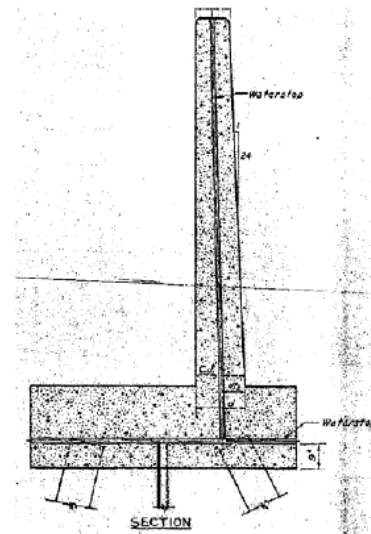


USACE



Photo by Lee Wooten

T-wall



Overtopping distressed an I-wall, but a T-wall near the Lower Ninth Ward breach held despite scouring.







Photograph courtesy of Entergy Corporation

Earthen levee under Rte 47 bridge

The storm surge overtopped the levee, but it emerged largely intact (with some scour).



Photograph by Francisco Silva

Storm surge overtopped Mississippi Riverfront levee, carrying houses in Plaquemines Parish onto the levee.



Photograph by Les Harder

Some structures were carried great distances



Earthen levees stretch for miles



Transition infrastructure was vulnerable



Breaks in floodwalls for roads or railroads



Photograph by Robert Bea

Blue tarps signal wind damage



Houses were checked and rechecked



Photograph by Rune Storesund

Leadership opportunities for Georgia Tech





National Academy of
Engineering / National
Research Council Committee
on New Orleans Regional
Hurricane Protection Projects

March workshop to be
sponsored by NSF:
Rebuilding the New Orleans
Region: Infrastructure
Systems and Technology
Innovation

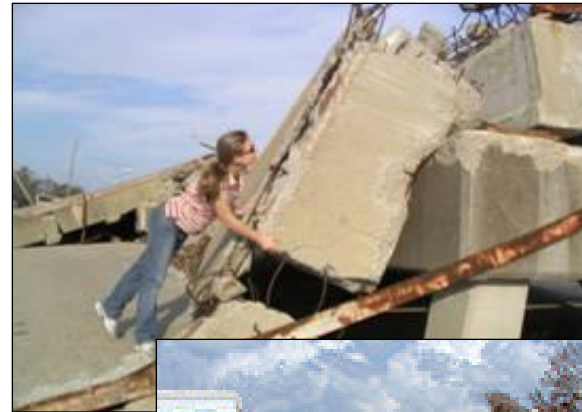
NSF funded 3 Tech infrastructure damage assessment teams.

Tech's Mid-America Earthquake Center studies bridge damage.

GTRI trains clean-up workers.

FEMA evaluates GTRI's plasma furnace system for using in waste disposal.

Students volunteer.



Grad student
Jamie
Padgett



Ass't Prof
Hermann
Fritz

